

Products & Principles

Kosmos Link

Big screen portability with a cart



Kosmos for iOS

POCUS for iPad users



Kosmos Bridge

Made for medicine



COMMON CAPABILITIES

- ✓ B-mode imaging benchmarked to high end carts
- ✓ Pulsed Wave Doppler
- ✓ Continuous Wave Doppler to answer pivotal Right Heart questions in patient management.
- ✓ DICOM Worklist and Store via WIFI
- ✓ Tissue Doppler Imaging to further quantify systolic and diastolic function
- ✓ AI tools to reduce experienced operator tasks and assist training new users
- ✓ Colour Doppler
- ✓ 5 year warranty on all EchoNous manufactured items (including occasional misuse)

PRINCIPLE 1

The future of POCUS

The future of Point-of-Care Ultrasound (POCUS) lies in AI-driven accuracy, portability, and accessibility. Advanced imaging and immediate quantified answers will enhance decision-making. Our affordable, portable devices will expand usage to underserved areas. POCUS will transform healthcare by enabling faster, precise clinical measurements, improving outcomes, and empowering providers across diverse clinical and emergency settings.

PRINCIPLE 2

Smart exam task reduction

User-centric ultrasound technology focuses on simplicity, accessibility, and efficiency. AI integration streamlines diagnostics, automating image recognition and reducing user tasks and consequent dependency. Portable, wireless designs enhance mobility and usability in diverse settings. Touchscreen interfaces and intuitive controls cater to varied expertise levels, ensuring faster adoption. This innovation empowers healthcare providers, improving patient outcomes.



Kosmos Link



The Off-The-Shelf (OTS) model of reducing POCUS equipment costs even in larger hospital type cart systems.

Using lower cost mass produced items coupled with necessary bespoke ultrasound hardware. Leveraging AI to reduce operator tasks and keyboard interactions to alleviate the dependency on bespoke keyboard hardware with their consequent costs. All whilst delivering the highest levels of diagnostic image quality on similar sized screens and providing flexible deployments that traditional carts cannot offer.



PRINCIPLE 3

Re-defining form factors

AI-driven automation in POCUS equipment minimizes manual interactions, simplifying device operation and reducing training requirements. Streamlined designs with fewer components enhance usability while lowering manufacturing complexity. Standardization enabled by AI reduces variability and assembly costs. These innovations deliver cost-effective, user-friendly devices, ensuring wider accessibility and scalability in diverse healthcare environments.

PRINCIPLE 4

AI-powered efficiency

AI-powered efficiency in Point-of-Care Ultrasound revolutionises clinical measurements by automating image acquisition, enhancing accuracy, and reducing operator dependency. Real-time anomaly detection accelerates decision-making, while machine learning improves predictive insights. Streamlined workflows lower cognitive load, enabling faster, precise care. This innovation empowers healthcare providers, optimizing patient outcomes in diverse clinical settings.

Kosmos Bladder

Kosmos Link enhances Kosmos Bladder.

An AI-driven bladder volume solution, providing seamless multi-probe connectivity and continuous power delivery, ensuring uninterrupted scanning.

The combination allows clinicians to efficiently assess bladder volume while benefiting from Kosmos Link's charge-while-scanning capability. This integration supports portability and workflow optimization, making bladder assessments more reliable and accessible. Kosmos Bladder's AI detects pre- and post-void volumes, improving diagnostic accuracy. Enhancing patient care and reducing uncertainty in bladder volume measurements.



POCUS for iPads

For users who already possess iPads, and want access to the highest quality POCUS tools, then Kosmos provides the perfect marriage of convenience with quality.

An off-the-shelf solution for iOS and Android, brings advanced Point-of-Care Ultrasound (POCUS) capabilities to these commonly used devices. This compatibility leverages the portability and intuitive interfaces of smartphones and tablets, transforming them into powerful diagnostic tools.

With you, when you need it. When you need to answer a question, you answer the question and move on. The ultimate in empowering Physicians to deliver best medical practice wherever they may be. Top-tier performance without the need for standalone machines.

PRINCIPLE 6

Cost advantages of consumer hardware

Integrating mass-produced hardware like tablets and generic carts lowers production costs by utilizing widely available components. This reduces manufacturing complexity, assembly time, and material expenses. Standardized designs streamline production processes and ensure consistency, minimizing errors. Such cost-effective hardware enhances scalability, making POCUS devices more affordable and accessible for diverse healthcare settings.

PRINCIPLE 5

Maintaining clinical quality

Kosmos' POCUS equipment matches the diagnostic accuracy of more expensive systems through advanced imaging technologies, including high-performance PZT transducers and comprehensive Doppler capabilities. AI-driven features enhance precision by automating measurements and anomaly detection. This integration ensures reliable diagnostics across applications, offering a cost-effective, portable solution without compromising on clinical performance.

"The Right Ventricle is not anymore the forgotten chamber. PWD and CWD are key in POCUS for assessing RV Haemodynamics – revealing pressure and flow data which are essential for assessing RV function, pulmonary artery pressures and pulmonary vascular resistance. All are essential in non-invasive assessment of the right ventricle."



DR HATEM SOLIMAN ABOUMARIE
CONSULTANT IN CARDIOTHORACIC INTENSIVE CARE
AT HAREFIELD HOSPITAL, UK



Kosmos Bridge

Made for medicine. Where robustness and information security are paramount.

Encrypted Operating Systems and no access for external software.

Kosmos Bridge offers a seamless and cost-effective solution for integrating Kosmos Probes with existing hardware systems.

Designed with flexibility in mind, it bridges the gap between advanced ultrasound technology and devices already in use by healthcare professionals.

Enabling high-quality imaging without the need for additional costly equipment. Kosmos Bridge empowers physicians while reflecting a commitment to affordability and practicality,

PRINCIPLE 7

Proven diagnostic performance

Kosmos ensures exceptional performance and patient care through high-resolution imaging and AI-powered features like automated anomaly detection and measurements. Precision-engineered PZT transducers and advanced Doppler capabilities support accurate diagnostics. Portable and robust, Kosmos delivers consistent, reliable results across clinical settings, empowering healthcare providers without compromising quality or functionality.



PRINCIPLE 8

EchoNous Inc's Innovation

EchoNous' innovative approach combines AI-driven automation with advanced imaging to deliver cost-effective, accessible, and clinically robust ultrasound technology. By integrating mass-produced hardware like tablets, they reduce manufacturing costs while maintaining high performance. Portable, user-friendly designs ensure accessibility in diverse settings, empowering healthcare providers with reliable, scalable diagnostic tools for improved patient care.



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